



PATENT  
P56173

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

YOUNG-HUN CHOI, *et al.*

Serial No.: 09/671,671                      Examiner: KRONENTHAL, CRAIG W

Filed: 28 September 2000                      Art Unit: 2627

For: FINGERPRINT RECOGNIZING DISPLAY AND OPERATING METHOD  
THEREOF

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites, describes, and provides copies of the following art references.

**FOREIGN PATENT REFERENCE:**

- Korean Patent Publication No. 10-0198112 to Choi, *et al.*, entitled *SECURITY METHOD USING FINGERPRINT RECOGNITION*, published on 26 February 1999 (with English abstract).
- Korean Patent Publication No. 1999-0033423 to Han, entitled *COMPUTER MONITOR USING FINGERPRINT-RECOGNIZING DEVICE*, published on 5 August 1999 (with English abstract).

**OTHER DOCUMENTS:**

- Korean Office action for Korean Patent Application No.10-1999-0049230, issued on 19 April 2006.

07/19/2006 HALI11 00000172 09671671

01 FC:1806

180.00 DP

## DISCUSSION

**Choi KR'112**, according to the Korean Office action in applicant's Korean patent application Serial No. 10-1999-0049230, discloses that image quality improvement work is carried out for fingerprint data inputted from a prism using absolute values without considering the characteristics of the fingerprints. The fingerprint data is binarized using a directional binary filter. Thinning for the binarized fingerprint image is carried out. Fingerprint minutiae are extracted from the thinned fingerprint data through restoration work.

**Han KR'423**, discloses that the present invention relates to a computer monitor using a fingerprint-recognizing device. A newly developed compact size of a finger-ring-recognizing system is variously mounted inside or outside a computer monitors part so that a user can contact his or her fingerprint outside the computer monitor. The fingerprint-recognizing system is applied to the computer monitor part so that the user can be recognized more exactly than a personal password in an information control of a computer system or a network construction, or in an internet electronic commerce. Thus, the user can conveniently input his or her fingerprint outside without difficulty in an information security system which is constructed.

Pursuant to 37 CFR §1.97(d), the undersigned attorney hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three (3) months prior to the filing of the statement.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relevant art.

PATENT  
P56173

Pursuant to 37 C.F.R. §1.97(c)(2), the fee set forth under 37 C.F.R. §1.17(p) of \$180.00 accompanies this Information Disclosure Statement. Should the check become lost, be deficient in payment, or should other fees be incurred, the Commissioner is authorized to charge Deposit Account No. 02-4943 of Applicant's undersigned attorney in the amount of such fees.

Respectfully submitted,



Robert E. Bushnell  
Reg. No.: 27,774  
Attorney for the Applicant

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Date: 7/18/06  
I.D.: REB/ks

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Approved for use through 9/30/2000. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

PTO/SB/17 (08-00)

# FEE TRANSMITTAL

Patent fees are subject to annual revision.

## Complete If Known

Application Number	09/671,671
Filing Date	28 September 2000
First Named Inventor	YOUNG-HUN CHOI, et al.
Examiner Name	KRONENTHAL, CRAIG W
Group/Art Unit	2627
TOTAL AMOUNT OF PAYMENT	(\$) <u>180.00</u>
Attorney Docket No.	P56173

## METHOD OF PAYMENT (check one)

### 1. Payment Enclosed: (CHECK #51106)

- Check  Credit Card  Money Order  
 Other

Charge Any Additional Fee Required Under 37 C.F.R. §1.16 and 1.17.

Applicant claims small entity status. See 37 CFR 1.27

### 2. The Commissioner is hereby authorized to charge any deficiency and credit any over payments to:

Deposit Account Number: 02-4943

## Fee Calculation

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
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### EXTENSION OF TIME FEES

1251	120	2251	60	Extension for reply within first month	\$
1252	450	2252	225	Extension for reply within second month	\$
1253	1020	2253	510	Extension for reply within third month	\$
1254	1590	2254	795	Extension for reply within fourth month	\$
1255	2160	2255	1080	Extension for reply within fifth month	\$

### APPEAL

1401	500	2401	250	Notice of Appeal	\$
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1402	500	2402	250	Filing a brief in support of an appeal	\$
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1403	1000	2403	500	Request for oral hearing	\$
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### CLAIMS

1201	200	2201	100	Independent claims in excess of 3	\$
1202	50	2202	25	claims in excess of 20	\$

Other Fee (specify) \_\_\_\_\_ \$ \_\_\_\_\_

Other Fee (specify) \_\_\_\_\_ \$ \_\_\_\_\_

Other Fee (specify) \_\_\_\_\_ \$ \_\_\_\_\_

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
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### MISCELLANEOUS

1801	\$790	2801	\$395	Request for continued examination (RCE)	\$
1806	\$180			Submission of an IDS	\$180.00
1814	\$130	2814	\$65	Statutory disclaimer	\$
8021	\$40			Recordation of assignment per property	\$

### TRADEMARK

6001/7001		\$335	Application for registration, per class	\$
6002/7002		\$100	Amendment to Allege Use, per class	\$
6003/7003		\$100	Statement of Use, per class	\$
6004/7004		\$150	Request for six-month extension of time, per class	\$
6205/7205		\$100	§8 affidavit, per class	\$
6208/7208		\$200	§15 affidavit, per class	\$
6201/7201		\$400	Application for renewal, per class	\$
6403/7403		\$100	Ex parte appeal, per class	\$

### PETITION

1462		\$400	Petitions to Director (Group I)	\$	
1463		\$200	Petitions to Director (Group I)	\$	
1464		\$130	Petitions to Director (Group II)	\$	
1452	\$500	2452	\$250	Petitions to revive unavoidably abandoned application	\$
1453	\$1500	2453	\$750	Petitions to revive unintentionally abandoned application	\$

### PATENT MAINTENANCE

1551	\$900	2551	\$450	Due at 3.5 years	\$
1552	\$2300	2552	\$1150	Due at 7.5 years	\$
1553	\$3800	2553	\$1900	Due at 11.5 years	\$

Other Fee (specify) \_\_\_\_\_ \$ \_\_\_\_\_

SUBTOTAL: LEFT COLUMN

\$ 0.00

SUBTOTAL: RIGHT COLUMN

\$ 180.00

## Submitted By

Typed or Printed Name

Robert E. Bushnell, Esq.

Reg. Number

27,774

Signature

Date

18 July 2006

Deposit Account User ID

REB/ks

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## INFORMATION DISCLOSURE STATEMENT

PTO-1449 (PAGE 1 OF 1)

SERIAL NUMBER 09/671,671

DOCKET NO. P56173

APPLICANT

YOUNG-HUN CHOI, et al.

FILING DATE

28 September 2000

GROUP 2627

## U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE

## FOREIGN PATENT DOCUMENTS

## TRANSLATION

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	KR 10-0198112	02/99	KOREA			Abstract	
	KR 1999-0033423	08/99	KOREA			Abstract	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	Korean Office Action of the Korean Patent Application No. 1999-49230, issued on 19 April 2006

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.